

6-6 MIDWAY- EXTRA 278 top well



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

WELL

Acres__

Elev. 980

Putnam

Oil and Gas Division

RECORD 14

Casing and

Tubing

Size

20-16

Cond.

13-10"

Quadrangle__<u>Elinwood</u> Permit No. PUT-855

Well No. 876

District Buffalo

_____Address_

Drilling Completed Show

Drilling Commenced___

Initial open flow _

Well open ___

Company <u>DEVON CORPORATION</u>

Address Box 271, Buffalo, WV

Mineral rights are owned by Same as above

Final production. 50 M cu. ft. per day ___

Address PO Box 1433, Charleston, WV Farm Delmer K. Foster Acres

Location (waters) Turkey Br. of 18 Mi. Creek

__ County_

<u> April 13, 1978</u>

April 21, 1978

__hrs. before test 1000 RP.

_cu. ft. ____ bbls.

AUG 2 5 1978

OIL & GAS DIVISION

DEET. OF	MINES
Rotary_X	Oil
Cable	Gas_X
Recycling	Comb
Water Flood	Storage

Disposal_____ (Kind) Used in Left Cement fill up Drilling in Well Cu. ft. (Sks.) 713 350 sacks

713 9 5/8 8 5/8 2667 2667 75 sacks 5 1/2 4925 4925 150 sacks

4 1/2 4846 Liners Used

Well treatment details: treatment details:

Attach copy of cementing record. Halliburton perforated from 4854 to 4856 with 16 holes. Water frac Oriskany Sand with 500 gal HCL, 926 BBL of treated gelled water, 121,000 SCF of nitrogen, 20,000 lbs of 80/100 and 28,000 lbs of 20/40 sand.

Coal was encountered at ___690-696 __Feet__ Inches Fresh water_ _Feet _ _Salt Water. _ Feet _ Oriskany Sand Producing Sand_ 4838-4860 Depth .

Formation	Color	Hard or Soft	Top Feet	Bottom Fee	et Oil, Gas or Water	* Remarks
Surface			0	20	and the second s	
Shale			20	59		
Sand			59	76		
Shale			76	148		
Red Roci	<		148	204		
Broken S	Sand		204	243		
Red Roci	<		243	364		
Broken :	Sand		364	392	EL ex	
Shale			392	402		
Sand			402	428	di d	
Red Rock	<		428	490		
Broken S	Sand		490	542		
Red Rock	(,		542	572		
Sha Te			572	608		
Red Rock	<		608	636	Promise Access	
Shale			636	690		
Coal			690	696		
Shale			696	722	and the second second	
Red Rock			722	830		
Shale			830	869		
Red Rock		- c	869	1027		The state of the s
Shale			1027	1068		
Sand		ID-DICKS (March 1997)	1068	1102	T A STATE OF THE S	
Shale		anne and the second	1102	1149	(over)	

(over)

^{*} Indicates Electric Log tops in the remarks section.

Formation Color Hard or Soft			
		Bottom Feet	Oil. Gas or Water * Remarks
Sand Shale Broken Sand Shale Sand Shale Sand Slate & Shells Sand Shale	1149 1198 1218 1292 1358 1398 1428 1438 1740 1751	1198 1218 1292 1358 1398 1428 1438 1740 1751 1818	
Sand Shale Little Lime Big Lime Shale Injun Sand Shale Coffee Shale Berea Sand Shale	1818 1857 1941 1979 2120 2145 2198 2596 2618 2636	1857 1941 1979 2120 2145 2198 2596 2618 2636	
Brown Shale Shale Marcellus Shale Onondaga L. S. Oriskany Sand Helderberg L. S.	2036 3800 4230 4617 4766 4838 4860	3800 4230 4617 4766 4838 4860	
Total Depth		4967	
	to a second		
		i	
and the second s			
		A P	
TO THE COLUMN TO			
daniele service des des des des controls de la companya del la companya de la companya del la companya de la co	penerational descriptions extension descriptions of the state of the s		

Date August 23,

10 78

APPROVED _____DEVON CORPORATION

Owner

District Geologist





OIL & GAS DIVISION THE T. OF WINES

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,			
Charleston, W. Va.	DATE April 5, 1978		
Surface Owner Delmer K. Foster	Company DEVON_CORPORATION		
Box 271, Buffalo, W. Va.	Address Box 1433, Charleston, W. Va. 2		
fineral Owner Delmer K. Foster	Farm D. K. Foster Acres 101 acres		
Box 271, Buffalo, W. Va.	Location (waters) Turkey Br. of 18 Mile Creek		
Owner Union Carbide Corporation	Well No. 876 Elevation District Buffalo County Putnam		
ddress Sanderson, W. Va.			
oal Operator Not Operated			
ddress	_		
PERMIT MUST BE POSTED AT THE WELL SITE			
and the second of the second o	NSPECTOR O BE NOTIFIED Martin Nichols		
driffing ins permit shall expire if			
tions have not commenced by 8-11-78 A	DDRESS Clendenin, W.Va.		
That have	HONE 548-6993		
le thereto, (or as the case may be) under grant or lease d	above named farm or tract of land for oil and gas, having fee ated March 28 1972 by D. K. Foster		
the thereto, (or as the case may be) under grant or lease of the case may be under grant or lease of the case of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case may be under grant or lease of the case of t	ated <u>March 28</u> 1972 by <u>D. K. Foster</u> - and recorded on the <u>13th</u> day of April - Page 437		
made to Commonwealth Gas Corp To putnam NEW WELL OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer of the been notified as of the above date.	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators		
made to Commonwealth Gas Corp 72 in Putnam County, Book 56 XXX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer of the above named coal owners and/or operator are hereby make by Section 3 of the Code, must be received by, or file.	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days.* registered mail, or delivered to the above named coal operators		
made to Commonwealth Gas Corp 72 in Putnam County, Book 56 XXX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer of the above named coal owners and/or operator are hereby make by Section 3 of the Code, must be received by, or fit Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operators day before, or on the		
made to Commonwealth Gas Corp 72 in Putnam County, Book 56 XXX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer of the been notified as of the above date. The above named coal owners and/or operator are hereby make by Section 3 of the Code, must be received by, or fifted the coal owners at their above shown respective address— Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address— ne day with the mailing or delivery of this copy to the Depart of the common of the copy to the Depart of the copy to the copy to the copy to the Depart of the copy to th	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operators day before, or on the		
made to Commonwealth Gas Corp 72 in Putnam County, Book 56 XXX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer of the been notified as of the above date. The above named coal owners and/or operator are hereby make by Section 3 of the Code, must be received by, or fifted the coal owners at their above shown respective address—ne day with the mailing or delivery of this copy to the Derect of the copy of the copy to the Derect of the copy of the copy to the Derect of the copy of this copy to the Derect of the copy of the copy to the Derect of the copy of the copy of the copy to the Derect of the copy of the copy to the Derect of the copy of the copy to the Derect of the copy of the co	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operators day before, or on the partment of Mines at Charleston, West Virginia. Very truly yours, DEVON CORPORATION		
made to Commonwealth Gas Corporation Putnam The color of the color	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days.* registered mail, or delivered to the above named coal operators day before, or on the partment of Mines at Charleston, West Virginia. Very truly yours, DEVON CORPORATION (Sign Name) Well December		
made to Commonwealth Gas Corporate in Putnam County, Book 56 XXX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer of been notified as of the above date. The above named coal owners and/or operator are hereby make by Section 3 of the Code, must be received by, or five coal owners at their above shown respective address—ne day with the mailing or delivery of this copy to the Derect of the Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address—ne day with the mailing or delivery of this copy to the Derect open common to the copy to the Derect of the Copies of the Copies of the mailing or delivery of the Copy to the Derect of the Copy to	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days.* registered mail, or delivered to the above named coal operators day before, or on the partment of Mines at Charleston, West Virginia. Very truly yours, DEVON CORPORATION (Sign Name) Well Operator A. C. Youse, Dist. Geologist		
made to Commonwealth Gas Corporate in Putnam County, Book 56 XXX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer of the been notified as of the above date. The above named coal owners and/or operator are hereby make by Section 3 of the Code, must be received by, or fit coal owners at their above shown respective address—ne day with the mailing or delivery of this copy to the Deput EASE SUBMIT COPIES OF ALL OPHYSICAL LOGS DIRECTLY TO: OIL & GAS CONSERVATION COMMISSION Address	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operators day before, or on the partment of Mines at Charleston, West Virginia. Very truly yours, DEVON CORPORATION (Sign Name) A. C. Youse, Dist. Geologist Box 1433 Street		
made to Commonwealth Gas Corporate in Putnam County, Book 56 NEW WELL DRILL DEEPER	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days.* registered mail, or delivered to the above named coal operators day before, or on the partment of Mines at Charleston, West Virginia. Very truly yours, DEVON CORPORATION (Sign Name) A. C. Youse, Dist. Geologist Box 1433 Street		
made to Commonwealth Gas Corporate in Putnam County, Book 56 XXX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer of the above named coal owners and/or operator are hereby make by Section 3 of the Code, must be received by, or fit Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address—ne day with the mailing or delivery of this copy to the Derect Copies of the Copies of ALL COPHYSICAL LOGS DIRECTLY TO: OIL & GAS CONSERVATION COMMISSION Address of Mail Operator are hereby make by Section 3 of the Code, must be received by, or fit copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address—ne day with the mailing or delivery of this copy to the Derect Cophysical Logs DIRECTLY TO: OIL & GAS CONSERVATION COMMISSION Address of Wall Operator Commission of Wall Operator Commission and Cophysical	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days.* registered mail, or delivered to the above named coal operators day before, or on the partment of Mines at Charleston, West Virginia. Very truly yours, DEVON CORPORATION (Sign Name) A. C. Youse, Dist. Geologist Box 1433 Street		
made to Commonwealth Gas Corporate in Putnam County, Book 56 XXX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer of the enclosed plat was prepared by a registered engineer of the above named coal owners and/or operator are hereby make by Section 3 of the Code, must be received by, or fit Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address—me day with the mailing or delivery of this copy to the Department of the Copies of the Copies of the Copies of the Mailing or delivery of the Copy to the Department of the Copy to the Copy	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operators day before, or on the partment of Mines at Charleston, West Virginia. Very truly yours, DEVON CORPORATION (Sign Name) A. C. Youse, Dist. Geologist Box 1433 Street Charleston,		
made to Commonwealth Gas Corponers in Putnam County, Book 56 XXX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer of the been notified as of the above date. The above named coal owners and/or operator are hereby make by Section 3 of the Code, must be received by, or fit Copies of this notice and the enclosed plat were mailed by coal owners at their above shown respective address me day with the mailing or delivery of this copy to the Derect Copies of the Copies of the Copies of the Mailing or delivery of the Copy to the Derect Copy of the Copy to the Derect Copy of the Copy to the Derect Copy of the Co	ated March 28 and recorded on the 13th day of April Page 437 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. r licensed land surveyor and all coal owners and/or operators notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days.* registered mail, or delivered to the above named coal operators day before, or on the partment of Mines at Charleston, West Virginia. Very truly yours, DEVON CORPORATION (Sign Name)		

*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

"I have read and understand the reclamation requirements as set forth in Chapter 22. Article 4, Section 12-b and will carry out the specified requirements."

Mouse,

Signed by _

PUT-855 PERMIT NUMBER

47-079

Juney

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XXX DRILL		DEEPEN FRACTURE-STIMULATE			
DRILLING CONTRACTOR: (If Known)		RESPONSIBLE AGENT:			
	lling Co.				
	, Elkview, W. Va.	ADDRESS Box 1433, Charleston, W. Va.			
TELEPHONE 965-3379		TELEPHONE 342-3171			
	COMPLETED WELL: 5000	ROTARY XXX CABLE TOOLS			
	FORMATION: Oriskany				
TYPE OF WELL:	OIL GAS XXX CO				
	RECYCLIN	IG WATER FLO	ODOTHER		
TENTATIVE CASING PRO	OGRAM:		inger Statistica de la contrata de la cont		
TOTATION TO THE CONTROL OF THE CONTR					
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP		
SIZE 20 - 16	DALL TING	WELL.	OR SACKS - CUBIC FT.		
13 - 10					
9 - 5/8	725	725	350 sax=to surface		
8 - 5/8					
7	2700	2700	75 sax=700 feet		
5 ½ 4 ½	5000	5000			
3		3000	Perf. Top		
2			Perf. Bottom		
Liners			Perf. Top		
			Perf. Bottom		
	1	8			
APPROXIMATE FRESH V	vater depths feet epths 690 / 285 Ag	SALT WATER _	FEET		
APPROXIMATE COAL DI	epths <u>691 / 285 A</u>	SOJE SEPTENES	TAKO DAI		
IS COAL BEING MINED	IN THE AREA? No	BY WHOM?	e gastri di significa		
TO DRILL:					
SUBMIT FIVE (5) C	OPIES OF OG - 1, \$100.00 PERMIT	FEE PERFORMANCE RO	ND AND PERMANENT COPY		
OF PLAT.	· · · · · · · · · · · · · · · · · · ·		MD MID IDIMENTALINI OOI I		
TO DRILL DEEPER OR F	REDRILL.				
SUBMIT FIVE (5) CO	OPIES OF OG - 1, SHOWING ORIGIN	NAL PERMIT NUMBER AN	D PERFORMANCE BOND ON		
WELLS DRILLED PI	RIOR TO 1929, A PERMANENT CO	PY OF THE PLAT AND T	HE ORIGINAL WELL RECORD		
MUST ALSO BE SUI	BMITTED.				
TO FRACTURE - STIMUL	ATE:		tagan da kabupatèn da kabupatèn Banggarapatèn da kabupatèn da ka		
OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE					
	PLAT AND ORIGINAL WELL REC				
ING ORIGINAL PERM	ELL ORIGINALLY DRILLED ON AN MIT NUMBER, AND PERFORMANCE	D/OR AFTER JUNE 5, 1929	9, FIVE COPIES OG - 1, SHOW-		
			en en familier en		
Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.					
(21) Hours in acc	vance.				
The following waiver	must be completed by the coal open	ator if the permit is to be i	ssued within ten days of receipt		
thereof.	Hoion Coubide C				
WAIVER: I the undersigned	ed, Agent for <u>Union Carbide Co</u>	Orp. Kank Kampanya Owner	or Operator of the coal under		
	examined and place on our mine ma				
We the OHIOH	Carbide Corp. Con North Park h	ave no objections to said we	ell being drilled at this location,		
	or has complied with all rules and regu	lations in Articles 4, 5, and 7	Chapter 22 of the West Virginia		
Code.					
		Monn	Dayllo /		
		Fo	r Coal Company		
		Toplas			
			Official Title		